

Sonal Singh M.D., M.P.H, FACP
Sonal Singh, MD, MPH, FACP
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Education

MPH, Bloomberg School of Public Health, Johns Hopkins University
 Baltimore, MD 6/2005 to 5/2008

Internal Medicine Residency, Unity Health System, affiliate University of Rochester
 Sch of Medicine and Dentistry, Rochester, NY 7/2002 to 6/2005

MD, Patna Medical College, Patna, India 12/91 to 05/1999

Academic Appointments

Associate Professor, Department of Family Medicine & Comm Health 10/2016 to date
 Department of Medicine, University of Massachusetts Medical School

Assistant Professor, Dept of Medicine, Johns Hopkins Univ SOM 7/2009 to 9/2016

Assistant Professor, Center for Public Health and Human Rights
 Bloomberg School of Public Health, JHU (joint) 7/2009 to 9/2016

Assistant Professor, Department of Medicine, Wake Forest University 7/2007 to 6/2009

Instructor, Department of Medicine, Wake Forest University 7/2005 to 06/2007

Employment History

Associate Professor, Department of Fam Medicine & Comm Hlth 10/2016-present
 Meyers Primary Care Institute & Department of Medicine (Joint)
 University of Massachusetts Medical School
 Role: Clinician- Investigator

Associate Professor, Department of Quantitative Health Sciences 10/2018-present
 University of Massachusetts Medical School (Joint)
 Role: Clinician- Investigator

Assistant Professor, Dept of Medicine, Johns Hopkins University. 7/2009 to 9/2016
 Role: Clinician- Investigator

Assistant Professor, Department of Medicine, Wake Forest University 7/2007 to 6/2009
 Role: Clinician- Educator

Instructor, Department of Medicine, Wake Forest University 7/2005 to 6/2007

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Role: Clinician- Educator

Residency (Medicine) Unity Healthy System, affiliate of the University of Rochester, Rochester, NY
7/2002 to 6/2005

Role: PGY 1, PGYII and PGY III Internal Medicine Resident

Research Associate, Clinical Pharmacology, Ohio State University 3/2001 to 6/2002

Role: Research assistant in clinical trials

Voluntary Research Associate, Clinical Pharmacology, Ohio State University 8/2000 to 2/2001

Role: Research assistant in clinical trials

USMLE STEP 1, II, III and Clinical Skills Exam Preparation 2/2000 to 7/2000

Role; Medical student

Resident, Medicine, Patna Medical College, Patna, Bihar, India 2/1998 to 1/2000

Role: Junior Resident in Medicine

Compulsory rotatory internship, Patna Medical College, Patna, India 12/97 to 12/98

Role: Fulfilling requirements for completion of medical degree in India

Certification and Licensure

Diplomate, American Board of Internal Medicine 8/2005-12/25

Massachusetts Board of Physicians 8/2016-8/2021

Physicians and Surgeons of Maryland (Inactive) 2009-2017

North Carolina Medical Board (Inactive) 2005 to 2009

Professional Memberships and Activities

Massachusetts Medical Society 2017-current

American College of Physicians 2003-2019

International Society of Pharmacoepidemiology 2011-current

Society of General Internal Medicine 2003 to 2016

International Society of Pharmacoeconomic Outcomes Research 2016 to 2017

Academy Health 2013

Global Health Council 2006 to 2010

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Honors and Awards

Fellow of the American College of Physicians	2019
Finalist W. Leigh Thompson Excellence in Research: Faculty Award, JHU	2016
Visiting Professor, Department of Medicine, Univ of Alabama	2013
3 rd Best Abstract (trainee) 29 th ICPE Montreal, Canada	2013
Bruce Squires Award for the Best Research Paper, CMAJ	2011
Scholars Abstract Award, Society for Clinical and Translational Sciences.	2010
Society of General Internal Medicine Clinical Investigator Award (Mid-Atlantic)	2010
Elected, Delta Omega Honorary Public Health Society, Johns Hopkins University	2008
Master Teacher Award, WFUSOM	2008
Tinsley R Harrison Faculty Outpatient Teaching Award, WFUSOM	2007
Tinsley R Harrison Faculty Outpatient Teaching Award, WFUSOM	2006
Senior-Resident Scholarship award, Unity Health System, NY	2005
ACP Health and Public Policy Scholarship, NY	2005

Committee Assignments and Administrative Services

Population Health & Pharmacy Collaborative Committee, UMASS	2019-current
American College of Physicians, Massachusetts Chapter, Health Policy Committee	2018-current
Chairs Advisory Council, Department of Fam Medicine & Comm Hlth	10/2016-present
American College of Chest Physicians, Cough Guideline Expert Panel	2017- present
Associate faculty, Welch Ctr for Prevention, Epi & Clin Research, JHU	2015 to 2016
Associate-Director, Center for Drug Safety and Effectiveness, JHU	2013 to 2016
Affiliate faculty, Center for Hlth Services and Outcomes Research, Johns Hopkins Bloomberg School of Public Health	2012 to 2016

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World Health Organization, International Agency of Research on Cancer (IARC) Monograph- 108 Working group, Lyon, France. 2013

Preferred Items for Reporting of Systematic Reviews and Meta-analysis of harms Working Group Alberta Canada. 2012

Member, Health & Human Rights Working Group, JHU Center for Aids Research 2012

Core faculty, Center for Public Health and Human Rights, Johns Hopkins Bloomberg School of Public Health 2009 to 2016

Core faculty, Evidence-Based Practice Center, JHU 2009 to 2016

Medical Director, Outpatient Clinic, WFUSOM 7/2005-6/2009

Teaching Activities

Classroom

Comparative effectiveness research (2 cr), Johns Hopkins Medicine 2015 to 2016

Role: Developed course in CER for MD and MD/PhD trainees in the CTSA

Health and Human Rights, Johns Hopkins Bloomberg School of Public Health 2011 to 2015

Role: Annual lecture in the course for MPH students

Health Economic, Johns Hopkins Bloomberg School of Public Health 2013

Role: Annual lecture in the course for master's students

Pharmacoepidemiology, Johns Hopkins Bloomberg School of Public Health 2011-2015

Role: Annual lecture in the course for master's and Doctoral students

Evidence-based Medicine, Johns Hopkins University School of Medicine 2012

Role: Course facilitator

Intro to Clinical Investigation, Johns Hopkins University School of Medicine 2012

Role: Annual lecture in the course

Clinical Epidemiology, Johns Hopkins Bloomberg School of Public Health, 2010-2014

Role: Annual lecture in the course

Patient Physician and Society, Johns Hopkins University School of Medicine 2009

Role: Course facilitator

Clinical Teaching

Outpatient medicine 2016-current

Role: Precepting residents and medical students in clinic at University of Massachusetts Medical School

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Evidence Based Medicine

2012-2014

Role: Developed a novel course to teach Evidence based Medicine to Osler medical residents at Johns Hopkins University School of Medicine

Outpatient medicine

2005 to 2009

Role: Precepting residents in clinic at Wake Forest University

Inpatient Medicine

2005 to 2009

Role: Precepting internal medicine residents at Wake Forest University

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Trainee /Junior Faculty Name	Mentoring Role	Title of Research Project/Paper	Current Position and Institution	Training Period
Univ of Massachusetts Medical School				
<i>Faculty</i>				
Idanis Berriosmorales	Mentor	SR of SDM in MS	Assistant Professor of Neurology	2019-
Paul Daniel, MD	Mentor	Insulin use in CKD patients	Assistant Professor	2018
Mayuko Itofukunaga, MD	Mentor	Systematic review of decision aids for lung cancer screening	Assistant Professor-Pulmonary Medicine and Critical Care/JF Scholar	2017-18
<i>Trainees</i>				
Nathaniel, Erskine MD, PhD (student)	Scholarly activity	SR of herpes zoster and cardiovascular disease	MD/PhD Student Umass Med School	2017-2018
Richeek Pradhan MS	Scholarly activity	Comparison of data on Adverse events	PhD Student McGill University	2017-18
Johns Hopkins University SOM and SPH				
<i>Faculty</i>				
Hsien-Yen Chang PhD	Mentor	Pharmacoepidemiologic studies	Assistant Scientist at JHU	2011-15
<i>Trainees</i>				
Omar Mansour	Scholarly activity	SGLT2inhibitors and cardiovascular outcomes	Masters student, JHSPH	2018
Geetha Iyer, MD	Mentor	Multiple Pharmacoepidemiologic studies	Doctoral student, HSPH	2015-16
Sathiya Priya Marimuthu, MPH	Mentor	Generic drugs and patient-oriented outcomes	Pharmaceutical industry	2015-16
Yohalakshmi Chelladurai, MD, MPH	RA Scholarly activity	Review of varenicline	Resident physician, Mercer, Atlanta	2013
Hasan Shihab, MD, MPH	RA Scholarly activity	Review of GLP-based therapies	Resident, Franklin Square, Baltimore	2013-14
Joshua Sclar, MD, MPH	Scholarly activity	Systematic review of attacks on health workers	General Preventive Medicine Resident	2013
Crystal Ng, MPH	Scholarly activity	Human Rights measures	MPH Student, JHSPH	2013
Ekta Agarwal, MPH	Capstone	Safety of novel anticoagulants	MPH student JHSPH	2013

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Meijia Zhou, MHS	Scholarly activity	Adherence to novel anticoagulants	Doctoral student, Univ of Pennsylvania	2013
Kaitlin Hayman, MD	Capstone	SR of the impact of disasters On CVD outcomes	MPH student, JHSPH	2013
Wenze Tang, MPH	Scholarly activity	SCCS analysis of GIB bleeding with dabigatran	Doctoral student, HSPH	2013
Shabana Walia MD	Scholarly activity	SR of CVD among refugees and displaced	ER physician, UT Houston	2016-2018
Wake Forest University SOM				
Aman Amin, MD	Scholarly activity	Inhaled corticosteroids and pneumonia	Practicing internist, NC	2007-09
Apurva Trivedi, MD	Scholarly activity	SSRIs and bleeding	Gastroenterologist	2007-09
Outside primary institution				
Tonya Breaux-Shropshire PhD, MPH	Scholarly activity	Systematic review	Post-doctoral trainee, UAB	2015
Abhay Kumar, MD	Resident Scholarly activity	Wernicke encephalopathy after gastric bypass: systematic review	Assistant Professor St Louis University	2007

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Current Grants and Contracts**Grants**

(Ming Tai-Seale) 2/2016-12/2021
 PCORI HIS-1608-35689-IC
 Improving Patient-Centered Communication in Primary Care: A Cluster Randomized Controlled Trial of the Comparative Effectiveness of Three Interventions
 The aim is to compare three interventions to improve patient communication in primary care Role: co-investigator

(PI Jerry Gurwitz) 08/2018- 09/2019
 NIH/NIA-1 R56 AG061813-01
 Project Title: Controlling and Stopping Cascades leading to Adverse Drug Effects Study in Alzheimer's Disease (CASCADES-AD)
 Role: co-investigator
 The aim is to develop interventions to prevent prescribing cascades among those with Alzheimer's related Dementia (ADRD)

Past Grants

Death Data Exploration 08/01/17- 03/02/18
 FDA Foundational Elements 3 HHSF223200910006I
 Task Order Number: HHSF22301012T
 Efforts to Develop the Sentinel Initiative HHSF223200910006I.
 Role (Project Lead)

Effect of Therapeutic Class on Generic Drug Substitutions. 2014-2016
 U01FD005267-01 (PI, Jodi Segal)
 FDA 349,480
 Role: Co-Investigator 0.6 CM

Comparative effectiveness Research & The Cochrane Eyes and Vision Group 2013-2016
 U01 EY020522 (PI, Kay Dickersin)
 NIH/NEI 825,397
 Role: Co-Investigator 2.4 CM

Systematic review of gabapentin for neuropathic pain using multiple data sources 2015-2016
 (PI, Caleb Alexander)
 FDA Center of Excellence in Regulatory Science
 Role: Co-Investigator (20% effort)

Integrating multiple data sources for meta-analysis to improve patient-centered outcomes research 2014-2016
 (PI- Dickersin)
 PCORI (ME-1303-5785) \$698,174
 Role: Advisor (2% effort)

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Development of a scale for human rights violations. (PI, Chaisson & Beyrer) NIH Johns Hopkins Center for AIDS Research Role: Pilot Awardee	2013-2014 \$ 18,873
Comparative effectiveness review of therapeutic options for obesity in the Medicare population. Johns Hopkins Evidence Based Practice Center. 2013-2014 PI (Eric Bass) AHRQ Role: Project Principal Investigator (20% effort)	 \$125,000
Center for Excellence in Comparative Effectiveness Education PHRMA Foundation (PI Jodi Segal) Role: Co-investigator (5% effort)	2012-2013 Total Direct Cost: \$250,000
A multi criteria decision analysis to assist with regulatory decisions around benefit and risk Partnership in Applied Comparative Effectiveness Science: PI (PI, Jodi Segal). FDA Role: Project Principal Investigator (25% effort)	2010 to 2013 \$3,509,657
Combination therapy vs. intensification of statin monotherapy: An update. PI (E. Bass- P.I of EPC.) AHRQ Role: Advisor (5% effort)	2012-2013
Troponin cardiac marker during renal impairment. (E. Bass- P.I of EPC.) Agency for Health Care Quality and Research Role: Advisor (5% effort)	2012-2013
To develop an instrument for attacks on health workers. PI (Len Rubenstein) US Institute of Peace Role: Co-investigator (10% effort)	2012-2013
To develop an instrument for attacks on health workers. PI (Len Rubenstein) McArthur Foundation Role: Co-investigator (15% effort)	2012-2013 \$434,782
To conduct a benefit and harm assessment of <i>roflumilast</i> in COPD. Johns Hopkins ICTR Role: Co-investigator (5% effort)	2012-2013

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To develop a China-JHU consultation for civil society public health professionals. Open Society Foundation Role: PI (20% effort). Proposal for a public health training program.	2012 \$49,534
 PACER. PI (Rothman) Google-Flu Role: Coinvestigator (5%) Systematic reviewer and meta-analysis expert.	 2012
 Methods for Balancing Benefits and Harms in Systematic Reviews Johns Hopkins Evidence Based Practice Center. (PI, Bass) AHRQ Role: Project Task Leader and co-Investigator (10% effort)	 2011-2012 \$188,871
 Comparative effectiveness review of Meditation Programs for Stress and Wellbeing Johns Hopkins Evidence Based Practice Center. (PI, Bass) AHRQ Role: Project Task Leader and co-Investigator (15% effort)	 2011-2012 \$375,666
 Comparative effectiveness review of prevention of VTE in special populations Johns Hopkins Evidence Based Practice Center. (PI, Bass) AHRQ Role: Project Principal Investigator (20% effort)	 2011-2012 \$375,666
 To prevent and respond to gender-based violence (GBV) in refugee and conflict-affected populations. (PI, Vu & Rubenstein) Role: Co-investigator (10% effort)	 2010-2011 \$293,946
 Comparative effectiveness review of oral hypoglycemic medications Johns Hopkins Evidence Based Practice Center. (PI, Bass) AHRQ Role: Co- Investigator (0% effort)	 2009-2010 \$125,000
 Johns Hopkins Clinical Research Junior Faculty Award. NIH-KL2 ICTR Role: Recipient (75% salary support)	 2009-2012
 Measuring exposure to human rights violations among men who have sex with men. (PI, Mullany). Center for Global Health Johns Hopkins Role: Co-investigator (0% effort).	 2009-2010 \$50,000

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Research ethics for conducting research in vulnerable populations and unstable settings.

(PI, Mills)

2007-2009

CIHR

\$99, 887

Role: Co-investigator (10% effort).

Editorial work***Editor-in-chief and founder***

BMC Conflict and Health

2007-12

Editorial Board Membership

Evidence Based Medicine (BMJ Group of Journals)

2017-current

Drug Safety

2008-16

American College of Physicians-PIER

Grant review

2012-current

Medical research foundation of New Zealand

Johns Hopkins Center for Public Health and Human Rights

Junior Faculty Research Grants

Medical Research Council of South Africa

Catalina Health Technology Assessment, Spain

Diabetes, UK

Johns Hopkins Medicine Research Council Synergy Awards

Johns Hopkins Institute for Clinical and Translational Research

Peer Review

1. <i>Acta Diabetologica</i>
2. <i>American Heart Journal</i>
3. <i>American Journal of Addictions</i>
4. <i>American Journal of Cardiovascular Drugs</i>
5. <i>American Journal of Managed Care</i>
6. <i>American Journal of Psychiatry</i>
7. <i>Annals of Internal Medicine</i>
8. <i>Annals of Medicine</i>
9. <i>Australian Medical Journal</i>
10. <i>BMJ</i>
11. <i>BMC Clinical Pharmacology</i>
12. <i>British Journal of Clinical Pharmacology</i>
13. <i>Bulletin of the World Health Organization</i>
14. <i>Chest</i>

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<i>15. Circulation</i>
<i>16. Canadian Medical Association Journal</i>
<i>17. Clinical Pharmacology and Therapeutics</i>
<i>18. Clinical Trials</i>
<i>19. Cardiovascular Drugs & Therapy</i>
<i>20. Cochrane Collaboration</i>
<i>21. Disasters</i>
<i>22. Diabetologia</i>
<i>23. Drug and Alcohol Dependence</i>
<i>24. Diabetes Obesity and Metabolism</i>
<i>25. Drug Safety</i>
<i>26. Epidemiology</i>
<i>27. European Journal of Neurology</i>
<i>28. European Journal of Pharmacology</i>
<i>29. European Respiratory Journal</i>
<i>30. Expert Opinion in Drug Safety</i>
<i>31. Global Public Health</i>
<i>32. Health Policy</i>
<i>33. International Journal of Clinical practice</i>
<i>34. International Journal of Epi</i>
<i>35. International Journal of Obesity</i>
<i>36. Journal of the American College of Cardiology</i>
<i>37. Journal of the American Medical Association (5 in last 12 mo)</i>
<i>38. Journal of the American Medical Association-Internal Medicine</i>
<i>39. Journal of Cardiac Failure</i>
<i>40. Journal of Medical Case Reports</i>
<i>41. Journal of the Pancreas</i>
<i>42. Journal of General Internal Medicine</i>
<i>43. Medscape General Medicine</i>
<i>44. Medical Journal of Australia</i>
<i>45. Nephrology Dialysis Transplantation</i>
<i>46. North Carolina Medical Journal</i>
<i>47. Nutrition, Metabolism & Cardiovascular Diseases</i>
<i>48. Pediatric Infectious Disease Journal</i>
<i>49. Pharmacoepidemiology & Drug Safety-Best Reviewer Award 2013</i>

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50. <i>Public Library of Science Medicine</i>
51. <i>Primary Care Respiratory Journal</i>
52. <i>Pediatrics</i>
53. <i>Research Synthesis Methods</i>
54. <i>Respiratory Medicine</i>
55. <i>Respirology</i>
56. <i>Southern Medical Journal</i>
57. <i>The Lancet</i>
58. <i>Thorax</i>
59. <i>Tropical Medicine & International Health</i>

Abstracts and Presentations**Oral Presentations*****National/International***

1. Risk of myocarditis associated with checkpoint inhibitors. 35th International Society of Pharmacoepidemiology, Annual Meeting, Philadelphia. Aug 26, 2019.
2. GLP-1-based therapies and risk of pancreatitis: A matched case-control study. 29th International Society of Pharmacoepidemiology, Annual Meeting, Montreal Convention Center, August 26. Montreal, Quebec, Canada.2013
3. GLP-1 based therapies and risk of pancreatitis. 36th SGIM Annual Meeting, Denver, Colorado. 2013
4. Risk of fractures with inhaled corticosteroids in COPD: Systematic review and meta-analysis of randomized controlled trials and observational studies, Society of General Internal Medicine, Minneapolis, Minnesota. 2011
5. Odds of fractures with inhaled corticosteroids in COPD: Systematic review and meta-analysis of clinical trials and observational studies, 27th International Society of Pharmacy-Epidemiology, Annual Meeting, Hyatt Regency August 24th. Chicago, Illinois. 2011

Posters***National/International Meetings***

1. Diagnostic algorithms for cardiovascular death in administrative claims databases. A systematic review 2018. International Society of Pharmacoepidemiology, Prague, August 24, 2018.
2. Risk of gastrointestinal bleeding among dabigatran users-a self-controlled case series analysis. Health Care Systems Research Network, San Deigo, March 22, 2017.
3. GLP-1 based therapies and risk of pancreatitis. Pancreatitis, Diabetes, and Pancreatic Cancer Workshop. NIH, Bethesda, Maryland. 2013
4. Thiazolidinediones and risk of bladder cancer: A systematic review and meta-analysis. 36th SGIM Annual Meeting, Denver, Colorado.2013
5. Who is the patient's doctor? Primary care responsibility and co-management relationships among generalist and non-generalist physicians in the National Ambulatory Care Survey, 2002 SGIM 29th Annual Meeting, Los Angeles, California.2006
6. The educational value of case reports from the SGIM national meeting in the internal medicine clerkship. SGIM 29th Annual Meeting, Los Angeles, California.2006

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7. Using iPod technology to create a self-guided clinic tour for resident orientation SGIM 29th Annual Meeting, Los Angeles, California.2006
8. Narcotic management in chronic non-malignant pain. A survey of resident's knowledge and attitudes. SGIM 29th Annual Meeting, Los Angeles, California.2006
9. Formulary conversion programs pose a significant risk to patients, SGIM 27th Annual Meeting, Chicago, Illinois.2004

Local regional meetings

Inhaled corticosteroids and the risk of fractures in COPD: A systematic review and meta-analysis. DOM Annual retreat, Johns Hopkins University 2011

Invited presentations***National/International***

1. Oral direct acting antivirals and the incidence or recurrence of hepatocellular carcinoma. NIH Collaboratory Grand Rounds [Web] March 2, 2018
2. Resurgence of hepatocellular carcinoma in the era of oral direct acting antivirals. Cause or Consequence? Fundamentals of Biomedicine Seminar Series. Texas Tech University Health Sciences Center. El Paso, Texas Dec 13, 2017
3. Aligning evidence with preferences: Methodological Challenges and Opportunities.
 - Dartmouth-Hitchcock Medical Center, Dartmouth, New Hampshire, June 15, 2016
 - Department of Health Services and Research, Michael De-Bakey VA and Baylor University, Houston, Texas, May 16, 2016.
 - Meyers Primary Care Institute and Department of Family and Community Medicine, University of Massachusetts, Massachusetts, March 31 and June 9 2016.
 - VA Center for Chronic Disease and Outcomes Research, Minnesota VA, March 2016.
 - Department of Medicine. University of Central Florida, Orlando, Florida, November 2015.
 - Center for Health Policy and Research Grand Rounds. UC Davis, Sacramento California, Oct 9 2015;
 - Center for Evidence and Outcomes, Agency for Health Care Research and Quality. Gaithersville Maryland, August 31, 2015.
4. Risks of Spiriva Respimat outweigh its benefit: A Debate. Inhalation Asia, University of Hong Kong, Department of Pharmacology and Pharmacy, Hong Kong. 2013
5. GLP-1-based therapies and risk of pancreatitis. Center for Clinical Epidemiology and Biostatistics Seminar Series, Philadelphia, Pennsylvania. 2013
6. Visiting Professor. Department of Medicine. University of Alabama. 2013
7. Value based health care: Can shared decision making methods get us there? Center for Value and Effectiveness, Medicine Institute, Cleveland Clinic, Noon Conference.2013
8. Role of Multi-criteria decision analysis in regulatory policy
 - Stanford Prevention Research Center, Stanford University, Palo Alto, Stanford, California. 2013
 - South Carolina College of Pharmacy, Columbia, South Carolina.2013
 - Department of Medicine. UC Davis, Sacramento, California.2013
 - Department of Clinical Sciences, UT Southwestern, Dallas, Texas.2013
 - Department of Medicine, Geisinger Medical Center, Danville, Pennsylvania. 2013

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9. Weighing benefits and risks: Role of shared decision making in type 2 diabetes. CTSA Grand Rounds, Mayo Clinic, Rochester, Minnesota. 2013
10. Are long-acting muscarinic agents safe for patients with COPD: A Debate. Airway Vista, Asan Medical Center, Seoul, Korea
11. Academia and industry collaboration for cardiovascular risk mitigation. CBI and Applied Clinical Trials. 6th Annual Summit, Closing Address. Ritz Carlton, Arlington, Virginia.2012
12. Varenicline: Where are we today? Tobacco Disease Research Program, UCSF. San Francisco California. Varenicline debate.2012
13. The Maoist Insurgency in Nepal: Health Systems Challenges and Opportunities Conference on Health in Fragile States: Challenges for the Next Decade. United States Institute of Peace. Washington DC.2011
14. Standards of Care and the Role of Community Advocacy in Clinical Trials. Clinical Research in Developing Countries, IIIrd Annual Marcus Evans Conference, Washington, DC.2008
15. Nepal-A Case study. Integrating public health methods into Conflict Analysis. Norman Patterson School of International Affairs, Carleton University, Ottawa, Canada.2007

Local/Regional

1. Oral direct acting antivirals and the incidence or recurrence of hepatocellular carcinoma. Research Seminar Series, Department of Family Medicine and Community Health. University of Massachusetts Medical School. June 15. 2018
2. Safety of novel anticoagulants vs warfarin- a case study using complementary study designs. Quantitative Health Sciences, University of Massachusetts Medical School, February 28, 2017
3. GLP-1-based therapies and risk of pancreatic adverse events. University of Maryland, Division of Endocrinology, Metabolism and Nutrition, Grand Rounds, Baltimore, Maryland. 2013
4. Thiazolidinediones and Patient-Oriented Outcomes in Type 2 Diabetes, GIM Grand Rounds. Johns Hopkins University School of Medicine. 2012
5. Patient-Centered Benefit and Risk Assessment. Center for Health Services and Outcomes Research. Johns Hopkins University 2012
6. Varenicline and cardiovascular and neuropsychiatric adverse events: Do benefits outweigh risks? Welch Center Grand Rounds. Johns Hopkins University. 2011
7. The new wave, HIV, Human Rights and Men who have Sex with Men in Nepal. Johns Hopkins Bloomberg School of Public Health, 2011.
8. Network Meta-analysis and Serious Adverse Events. Network Meta-Analysis Methods Workshop. Johns Hopkins Bloomberg School of Public Health. 2010
9. Thiazolidinediones and Cardiovascular Outcomes in Type 2 Diabetes. Internal Medicine Grand Rounds. Wake Forest University School of Medicine, 2008
10. How Safe Are Our Drugs and How Do We Know? North Carolina ACP, Durham.2008
11. Clinico Pathologic Conference. Internal Medicine Grand Rounds. Wake Forest University School of Medicine, 2007
12. Globalization and Health Equity: An emerging Challenge for Academic Medicine. Internal Medicine Grand Rounds. Wake Forest University School of Medicine, 2007
13. Thiazolidinediones and Cardiovascular Disease: The Seduction of Common Sense. Epidemiology Seminar Series, Public Health Sciences. Wake Forest University 2007

Workshops and Precourses

1. ISPOR National Meeting, Next Generation Comparative Effectiveness Research- Are we getting organized to facilitate research for the individual patient? Washington, DC May 24, 2016 (workshop)

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2. SGIM national meeting, developing high-quality search strategies for systematic reviews. 2010
3. SGIM national meeting, Systematic Review. 2009

Peer reviewed original research publications (reverse chronological order)

Trainees *

1. Min JY, Grijalva CG, Morrow JA, Whitmore CC, Hawley RE, **Singh S**, Swain RS, Griffin MR. A Comparison of Two Algorithms to Identify Sudden Cardiac Deaths in Computerized Database. *Pharmacoepidemiol Drug Saf.* 2019 Aug 7. doi: 10.1002/pds.4845. [Epub ahead of print]
2. **Singh S**, Mazor KM, Fisher K. Positive deviance approaches to improving vaccination coverage rates within health care systems: a systematic review. *J. Comp. Eff. Res.* 8(14), DOI: 10.2217/ce-2019-0056 (2019).
3. Pradhan R, *Nautiyal A, **Singh S**. Diagnosis of immune checkpoint inhibitor-associated myocarditis: A systematic review. *International Journal of Cardiology*. Published online July 11 2019 <https://doi.org/10.1016/j.ijcard.2019.07.025>
4. **Singh S**, Nautiyal A, Belk K. Real world outcomes associated with Idarucizumab: Population based retrospective cohort study. *Am J Cardiovasc Drugs* (2019). <https://doi.org/10.1007/s40256-019-00360-6>
5. **Singh S**, Fouayzi H, Anzuoni K, Goldman L, Min JY, Griffin M, Grijalva CG, Morrow JA, Whitmore C, Leonard CE, Selvan M, Nair V, Zhou Y, Toh S, Petrone A, Williams J, Fazio-Eynullayeva E, Swain R, Cole DT, Andrade S. Diagnostic algorithms for cardiovascular death in administrative claims databases. A systematic review. *Drug Safety* 2019 Apr;42(4):515-527
6. **Singh S**, Zeiman S, Alan Go, Fortmann S, Wenger N, Fleg JL, Radziszewska B, Stone NJ, Zoungas S, Gurwitz J. Statins for Primary Prevention in Older Adults – Moving toward Evidence-Based Decision-Making. *J Am Geriatr Soc.* 2018 Nov;66(11):2188-2196.
7. Moore A, Harnden A, Grant CC, Patel S, Irwin RS; **CHEST Expert Cough Panel**. Clinically Diagnosing Pertussis-associated Cough in Adults and Children: Chest Guideline and Expert Panel Report. *Chest.* 2018 Oct 12. pii: S0012-3692(18)32575-3. doi: 10.1016/j.chest.2018.09.027. [Epub ahead of print] PubMed PMID: 30321509.
8. Hill AT, Gold PM, El Solh AA, Metlay JP, Ireland B, Irwin RS; **CHEST Expert Cough Panel**. Adult Outpatients with Acute Cough Due to Suspected Pneumonia or Influenza: CHEST Guideline and Expert Panel Report. *Chest.* 2018 Oct 6. pii: S0012-3692(18)32499-1. doi: 10.1016/j.chest.2018.09.016. [Epub ahead of print] PubMed PMID: 30296418.
9. Tisminetzky M, Nguyen HL, Gurwitz J, McManus D, Gore J, **Singh S**, Yarzebski J, Goldberg RJ. Magnitude and impact of multiple chronic conditions with advancing age in older adults hospitalized with acute myocardial infarction. *International Journal of Cardiology.* 2018 Dec 1;272:341-345.
10. Chang HY, **Singh S**, Mansour O, Baksh S, Alexander GC. Association Between Sodium-Glucose Cotransporter-2 (SLGT-2) Inhibitors and Lower Extremity Amputation: A Retrospective Cohort Study. *JAMA Intern Med.* 2018 Sep 1;178(9):1190-1198.
11. Birring SS, Kavanagh JE, Irwin RS, Keogh K, Lim KG, Ryu JH; **CHEST Expert Cough Panel**. Treatment of Interstitial Lung Disease Associated Cough: CHEST Guideline and Expert Panel Report. *Chest.* 2018 Oct;154(4):904-917
12. **Singh S**, Nautiyal A, Loke YK. Oral Direct-acting antivirals and the incidence or recurrence of hepatocellular carcinoma: a systematic review and meta-analysis. *Frontline Gastroenterology* 2018 Oct;9(4):262-270.

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